

COLOR LIQUID CRYSTAL DISPLAY DEVICE

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Abstract

PURPOSE: To obtain a color liquid crystal display in which stable color balance is always obtained by adjusting driving voltages of color liquid crystal display elements for every color while calculating a luminance ratio with a photodetecting means.

CONSTITUTION: When a color liquid crystal device is operated, characters, graphics, etc., are displayed in the display area of color display elements 11 with the transmissive illumination due to displaying light source 14 by the control signal from a display control circuit 16. The display in the display area 11A is performed and simultaneously colors of transmission lights set for every color of color filters are turned on and off and displayed in a suitable period in a luminance measuring area 11B and then display luminances of respective colors is detected by a photodetecting means 15. Then, driving voltages of color liquid crystal display elements 11 are controlled by a display control circuit 16 and a driving voltage control circuit 13 based on the luminance detection signal from the photodetecting means 15 so that luminance of respective colors in the luminance measuring area become a predetermined ratio of luminance of respective colors, that is, the luminance ratio or a contrast ratio.

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